

## ABSTRACT

A probe interface assembly for an automated medical imaging system is provided. The assembly comprises a platform including and inner frame for supporting an ultrasound probe in spaced apart relationship relative to a compression paddle arranged to apply a compression load to breast tissue being scanned during a medical imaging process. The platform is adapted to contactively engage the compression paddle during the medical imaging process. The platform may include a first resilient pivot connection at each side of a first set of mutually opposite sides of said inner frame to provide a tilt degree of freedom about a first axis. The platform may further include a second resilient pivot connection at each side of a second set of mutually opposite sides of the inner frame to provide a tilt degree of freedom about a second axis positioned orthogonal relative to the first axis. The first and second connections allow a face of the probe to remain substantially parallel relative to the compression paddle notwithstanding of deformation of the compression paddle that may occur when the compression paddle applies the compression load to the tissue being scanned.